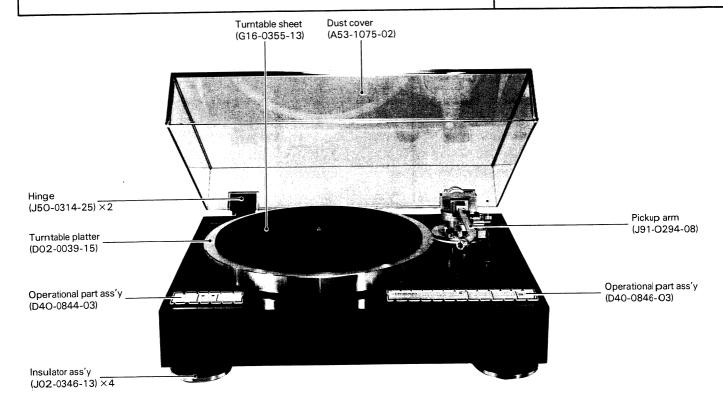
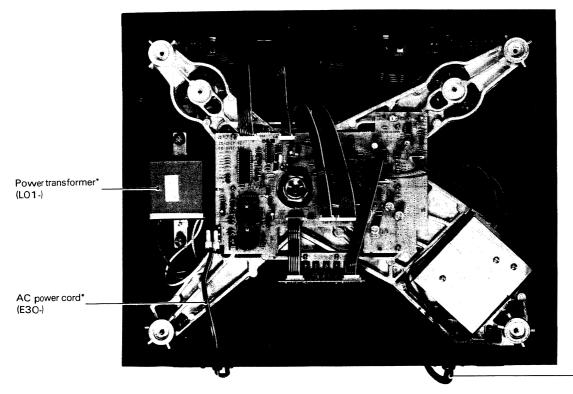
KD-7010 SERVICE MANUAL

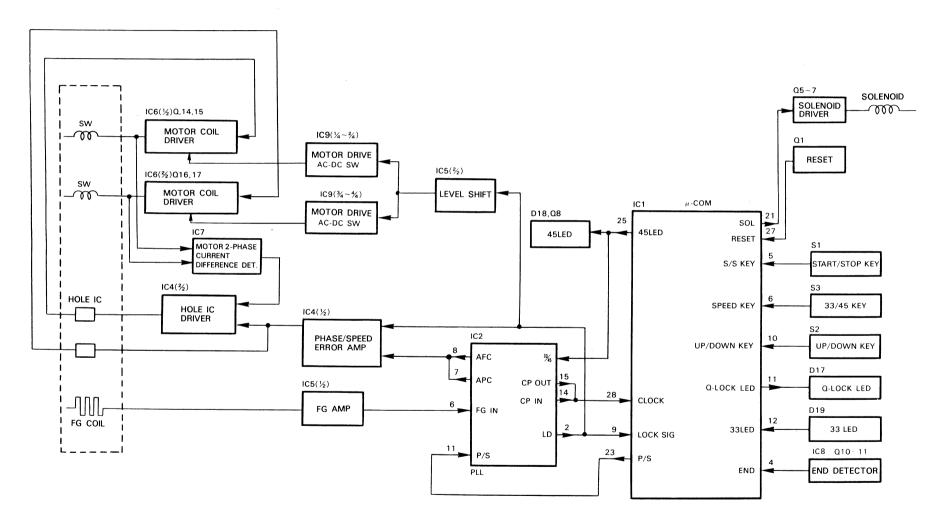
KENWOOD

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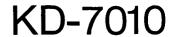




Audio cord (E30-Ø800-05)



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. Functions of Semiconductors

ELECTRIC UNIT (X25-2580-00)

Element	Function	Operation, Condition & Interchangeability			
IC1	Microprocessor	Refer to the description of μ PD7520.			
IC2	PLL controller	For motor speed and phase control. Refer to the description of TC9142P.			
IC3	Power ON/OFF	Each time Power SW S4 is pressed, the output from pin 2 switches between H and L, which controls Q5 to turn power ON and OFF.			
IC4	Error amplifier, Hole IC driver	Drives the Hole ICs of the motor, based on the speed and phase error signals from IC2.			
IC5	FG amplifier Level shifter	Amplifies the motor's FG output. Shifts the level of the IC2's Lock signal from $(0-8\text{V})$ to $(+10-10\text{V})$, and turns IC9 (analog SW) and Q9 ON and OFF.			
IC6	Motor driver	Amplifies the motor's Hall IC output to drive the motor coil. Q14 to Q17 are output current boosters.			
IC7	Difference detector for 2-phase motor coil current	Detects the difference values of the 2-phase current from the motor coil, and sends the signal to IC4 in order to eliminate the difference.			
IC8	End detector	Amplifies the photo-reflector output, detects the tonearm position, differentiate the position detection output for convertion into speed, and compares it in order to detect the guide groove.			
IC9	Analog SW, motor driver AC/DC coupling switch	The SW is OFF and the coupling is AC when the motor is quartz-locked, and the coupling DC in other cases.			
Q1	+8 V power supply	Increases the current of Zener diode D8.			
Q2	Microprocessor reset				
Q3	Power ON/OFF	Q3 turns ON/OFF depending on the IC3's flip-flop output, controls the voltage at the base of Q1, and turns power ON and OFF.			
Q4	IC3 reset	Detects the Zener current from Zener diode D9, and resets IC3. It is initialized so that the Power SW is OFF when the power cord is connected.			
Q5	Q6 driver	Turned ON by microprocessor IC1 in solenoid drive operation (with microprocessor output "L").			
Q6	Solenoid driver	ON when SOL is ON.			
Ω7	Solenoid driver	Turns ON for approx. 8 seconds from the solenoid kick operation.			
Q8	LED driver	When the speed is set for 45 rpm, Q8 turns ON by "H" output from the microprocessor.			
Q 9	IC7 output OFF switch	Inhibits the operation of the 2-phase current difference detector circuit while the motor is not quartz-locked.			
Q10, 11	End detector	Controls the photo-reflector output used for end detection.			
Q12, 13	±10 V power supply	Increases the current of Zener diodes D6 and D7.			
Q14~17	Motor driver	Drives the motor coil for IC6 output current boost.			

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2. Two-phase current difference detector

The wow & flutter of a two-phase motor deteriorates when there is a difference between the current values of the two phases, ϕ 1 and ϕ 2. With the KP-990, this difference is eliminated by using a circuit which detects the difference between the two phase currents and adjusts the drive current of the Hole ICs.

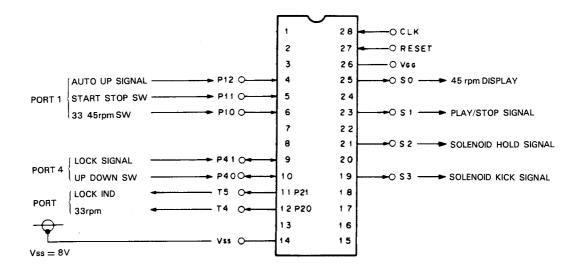
> the currents of the two Hole ICs so that ϕ 1 and ϕ 2 current values are equal. is fixed at about 0 V, and this circuit does not operate. - 10 V when motor is quartz-locked, +10 V in other cases R63 39k R65 driver circuit @ 36k %IC7 **C35** (INTEGRATOR)

output from it. (The difference between the 1) and 2 portions in the diagram on the left) Then, the ripple incorporated in the output is eliminated by the low-pass filter, and its output is recognized as the difference between the two phase currents. The Hole element drive circuit uses this signal to control

When the motor is not quartz-locked, Q9 is ON, the output

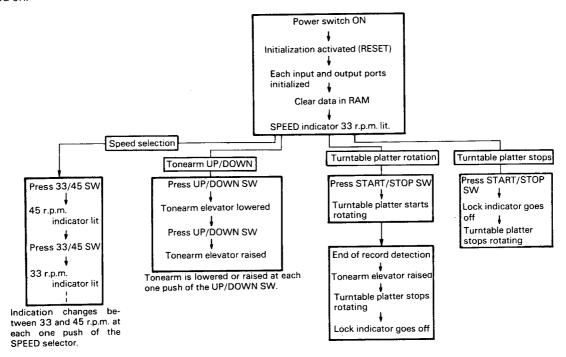
The positive side of $\phi 1$ and negative side of $\phi 2$ are input to the integrator, and the difference between $\phi 1$ and $\phi 2$ is

3. Microprocessor Operation Description



Operation specifications of μPD7520

The following diagram shows the operations of each section which occur at each operating point after power has been turned on.



Condition of each μ PD7520C-028 ports

- (1) Initialization (Power ON)
- (2) Speed selection (33/45 rpm)
- (3) Turntable platter starts rotating (START)
- (4) Tonearm auto up
- (5) Turntable platter stops rotating (STOP)

The above mentioned (1) \sim (5) are placed in the order of the functions described in " μ PD7520C-028 Function description". The conditions shown in the table below are also in that order so that functions can be confirmed while checking the IC's ports.

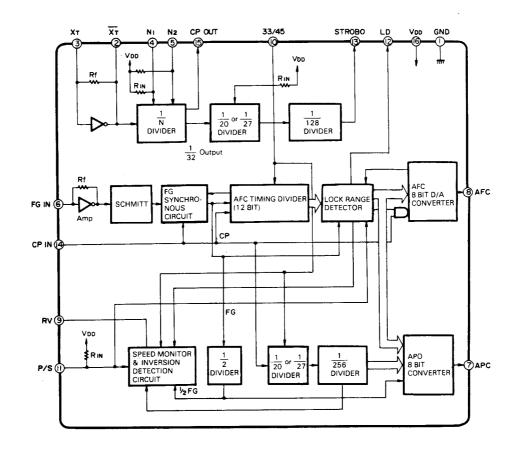
			INPUT	PORT				0	UTPUT	PORT		
PORT NO.	P10	P11	P 12	P 13	P 40	P41	T 4	T 5	S 0	S 1	S 2	S 3
PIN NO.	6	5	4	3	10	9	12	11	25	23	21	19
PORT NAME	33/45	START STOP	AUTO UP	Not	UP DOWN	LOCK	33rpm	LOCK	45 rpm	START STOP	UP DOW N	Kick
	SW	SW	Signal	used	SW	Signal	LED	LED	LED	Signal	Signa l	Signal
(1) Power ON RESET						; ; ;						
33/45 SW ON (45)		<u> </u>			1	! !		<u> </u>	 - -	1		
(2) 33/45 SW ON (33)					!	<u> </u>				!		<u> </u>
(3) START/STOP SW ON								1 1				
Auto up signal IN		1				·		I I		1		
START/STOP SW ON				· · · · · · · · ·	! !	! ! !	! !	I I				
(5) START/STOP SW ON					i i	! !		! !				

KD-7010

4. Quartz PLL Motor Controller (C2-MOS LSI)

TC9142P is a motor controller for quartz lock type direct drive turntable motors. This IC employs 8-bit D/A converter for rotational speed control and phase control instead of the conventional capacitor type sampling hold circuit. This method will reduce the numbers of components and also gets free from adjustments.

BLOCK DIAGRAM



• Functions of terminals

CODE	NAME	FUNCTION DESCRIPTION	REMARKS
1 GND	Ground	Ground terminal for IC	
2 XT, 3 XT	X'tal connection	Connect a crystal between these two pins.	Built-in feed back resistor
4 N1 5 N2	Reference divid- ing factor sw.	Dividing factor of 4,32 or 128 can be selected for reference crystal frequency by these ports.	Built-in pull-up resisrtor
6 FG-IN	FG pulse input	Pulses generated as motor rotates is input to this port for rotatioal speed detection.	
7 APC	APC output	Automatic phase controller output. (8-bit D/A converter output)	Built-in amp
8 AFC	AFC output	F-V converter output for rotational speed control. (8-bit D/A converter output)	
9 RV	Inversion signal output	Inversion signal output for turntable motor.	
10 33/45	Speed selector	Rotational speed selector port. (L: 33 1/3 r.p.m.) (H or NC: 45 r.p.m.)	Built-in pull-up resister
11 P/S	PLAY/STOP input	Input port to select PLAY or STOP state of the turntable motor.	Built-in pull-up resistor
12 LD	Lock detection output	Outputs "H" when the rotational speed is in the lock range, otherwise "L".	
13 STROBO	STROBO output	Reference frequency output for stroboscope with the duty ratio of 1/8.	
14 CP-IN	CP-IN input	This port is normally connected oscillator input to this port will fine speed adjustment.	
15 CP-OUT	CP-OUT output	Divided frequency output of crystal oscillator for reference, normally connected to CP-IN.	
16 VDD	VDD	Feed power supply voltage of 5-9.5V.	

ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

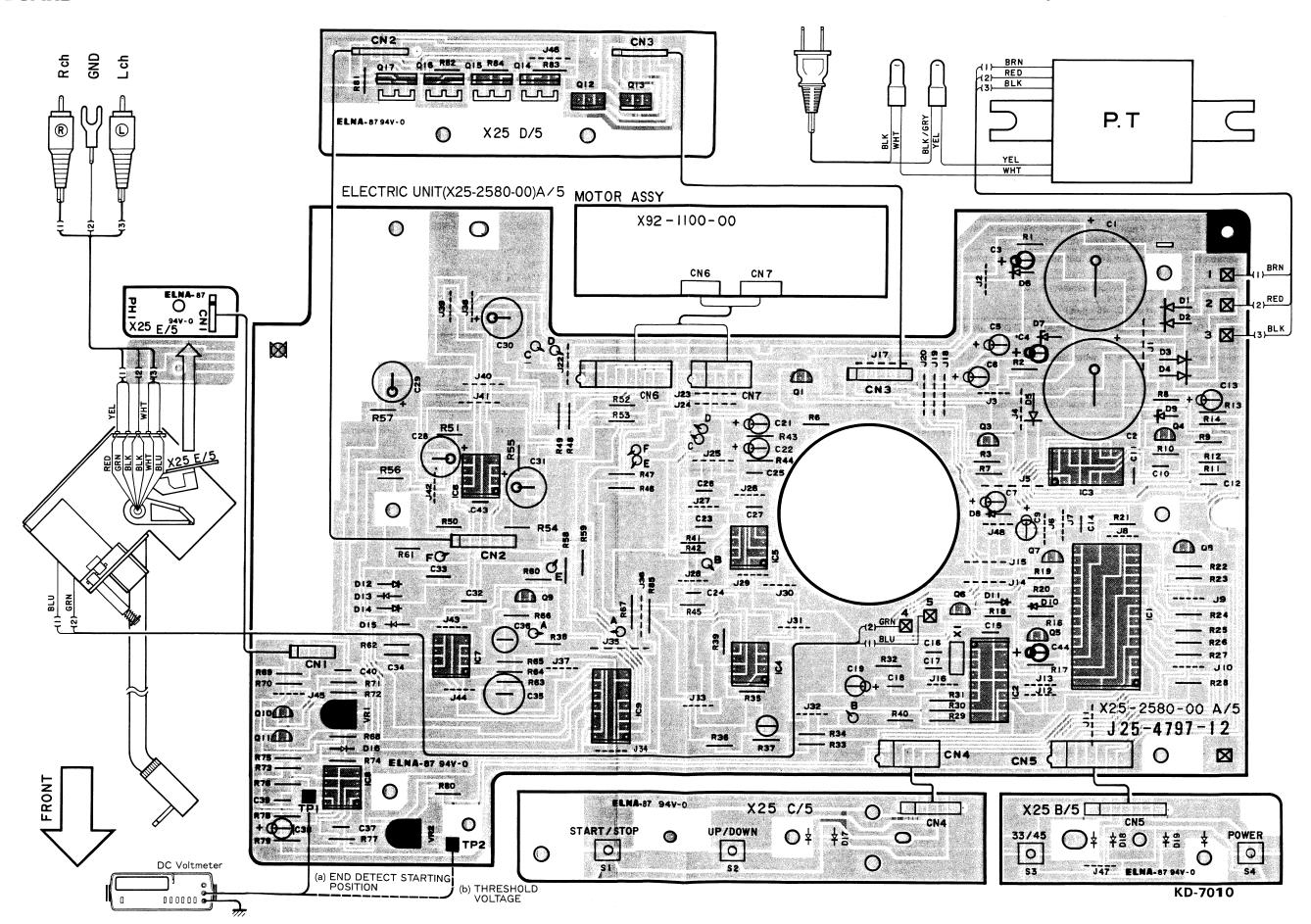
No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TURNTABLE SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	END DETECT STARTING POSITION	_	Connect a DC voltmeter to TP1 (Pin 7 of IC8)	Set the stylus tip so that 57.5mm is obtained from the center of the turntable spindle.	VR1	0.97	(a)
2	THRESHOLD VOLTAGE	_	Connect a DC voltmeter to TP2 (Pin 2 of IC8)	-	VR2	220mV	(b)

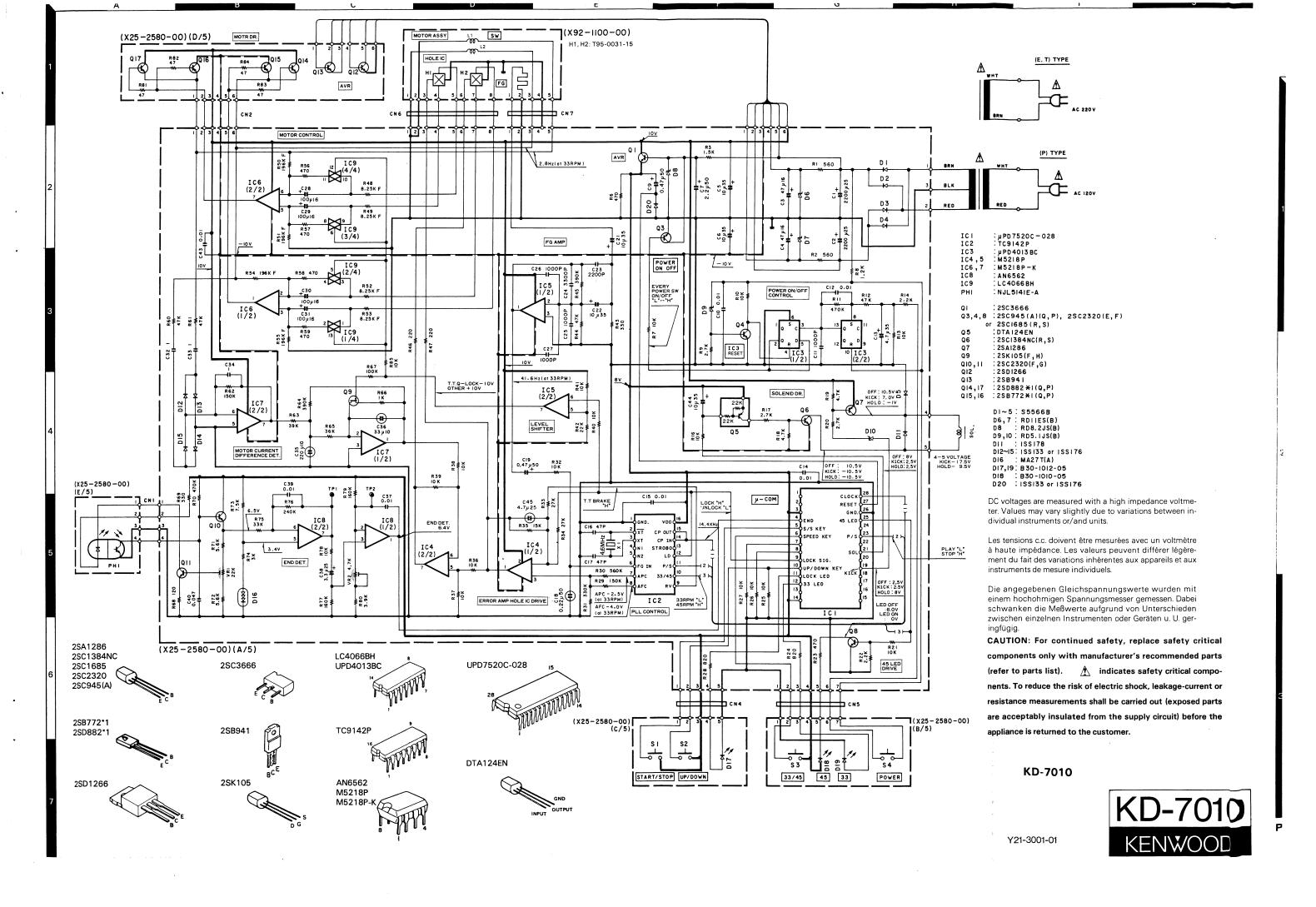
REGLAGES

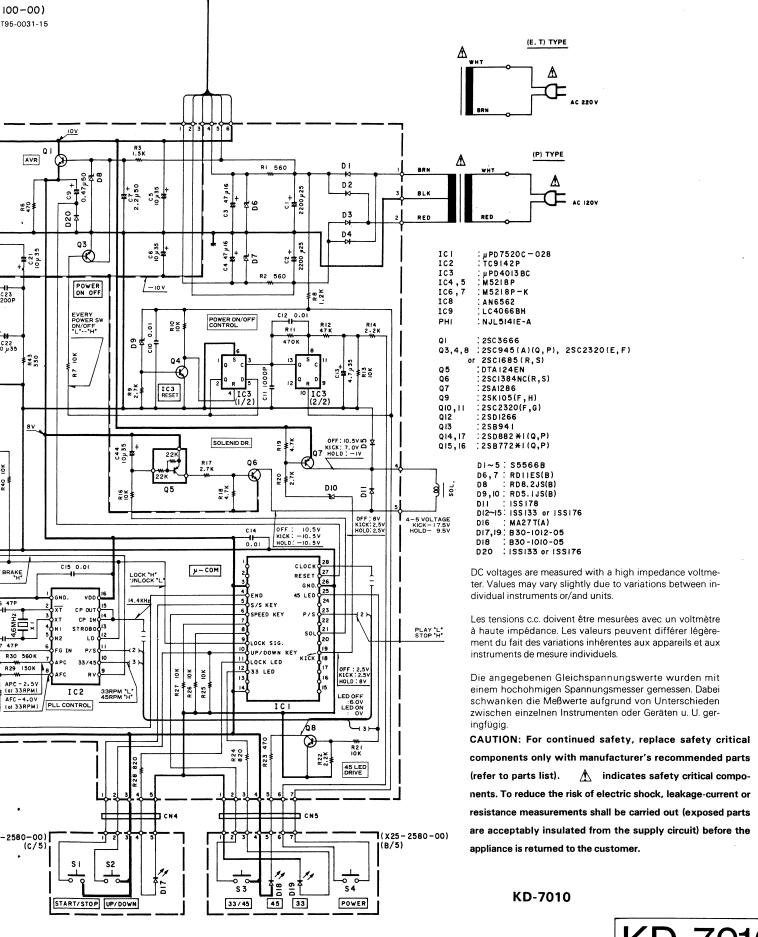
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE TOURNE-DISQUE	POINTS L'ALIGNMENT	ALIGNER POUR	FIG.
1	POSITION DE DEPART LA TERMINASION DE DETECTEUR	-	Connecteur un voltmetre CC a TP1 (Fiche 7 de IC8)	Régler la crête de aiguille de facon de 57,5mm soit obtener de centre de plateau à disques.	VR1	0,9V	(a)
2	TENTION DE SEUIL		Connecteur un voltmètre CC à TP2 (Fiche 2 de IC8)	_	VR2	220mV	(b)

ABGLEICH

700	LEICH		,				
NR.	GEGENSTAND	EINGANGS- EINSTELLUNG	AUSGANGS- Einstellung	PLATTEN SPIELER- EINSTELLUNG	ABGLEICH Punkte	ABGLEICHEN FüR	ABB
1	ENDE DETEKTS ANFANGS- STELLUNG	_	Einen Gleichspannungs messer zum TP1 (Stift 7 von IC8) anschließen.	Der spitze von Tonabnehmer so einstellen, daß ein 57,5mm aus der mitte des Plattentellers erhalt wird.	VR1	0,9V	(a)
2	SCHWELLEN- Spannung	_	Einen Gleichspannungs messer zum TP2 (Stift 2 von IC8) anschließen.	-	VR2	2 2 0 m V	(b)





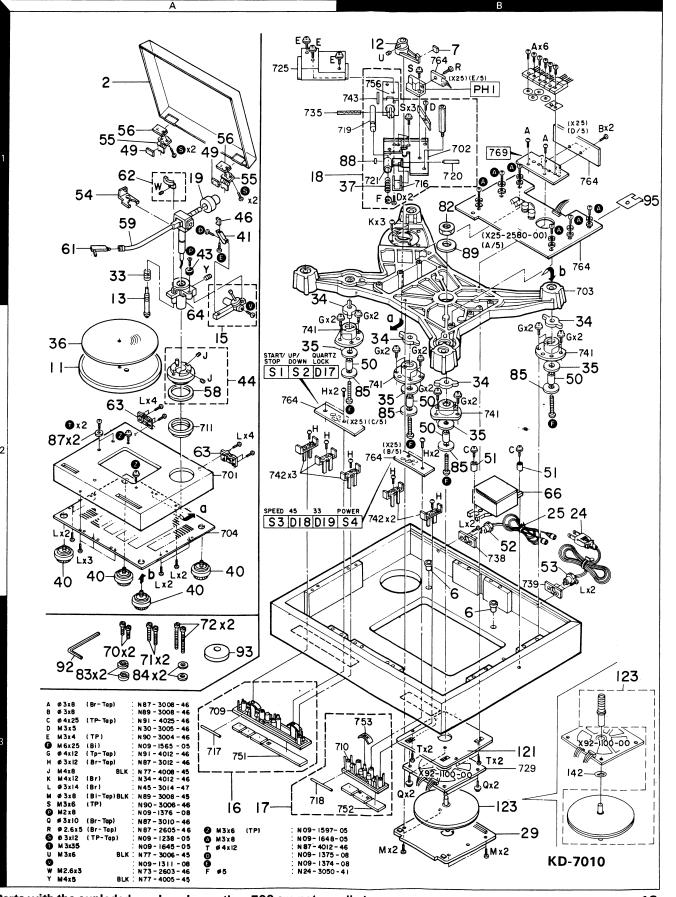


Y21-3001-01



KD-7010

EXPLODED VIEW (MAIN UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

13

× New Parts

PARTS LIST

Parts without Parts No. are not supplied.

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Ref.		ew Parts No.	Description	Desti- Re-
参照		新品番号	部品名/規格	仕 向 備考
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2	1A *	A53107502	DUST COVER	
6 7 - -	2B,3B 1B	B09-0051-04 B19-0510-14 B46-0121-03 B46-0122-13 B46-0143-03	CAP MIRROR WARRANTY CARD WARRANTY CARD WARRANTY CARD	P E T
-	* * *	B50-9352-00	INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL CAUTION CARD CAUTION CARD	PE E
		B58-0518-04 B58-0519-04	CAUTION CARD CAUTION CARD	ET P
11 12 13 15 16	2A 1B 1A 2A 3A *	D02-0039-15 D10-0944-24 D21-1007-08 D39-0169-08 D40-0846-03	TURNTABLE PLATTER ARM SHAFT ASSY ANTI-SKATING DEVICE ASSY OPERATIONAL PART ASSY	
17 18 19	3A *	D40-0844-03 D40-0511-23 D91-0069-08	NPERATINNAL PART ASSY AUTN-UP MECHANISM ASSY MAIN WEIGHT	
24 24 24 25	2B 2B 2B 2B 2B	E29-0309-05 E30-0459-05 E30-0780-05 E30-1416-05 E30-0800-05	WIRE CONNECTION CAP AC POWER CORD AC POWER CORD AC POWER CORD AC POWER CORD AUDIO CORD	E P T
29	3B	F07-0483-03	COVER	
33 34 35 36 37	1A 1A,2B 2A,2B 2A 1B	G01-1057-08 G11-1127-04 G11-1128-04 G16-0355-13 G01-1078-04	TORSION COIL SPRING CUSHION CUSHION TURNTABLE SHEET COMPRESSION SPRING	
 	*	H01-8395-04 H10-1864-02 H10-1865-02 H10-1866-02 H12-0393-02	ITEM CARTÓN CASE POLYSTYRENE FOAMED FIXTURE(T.T POLYSTYRENE FOAMED FIXTURE(L) POLYSTYRENE FOAMED FIXTURE(R) CARTÓN BOARD	
-		H20-0469-04 H25-0029-04 H25-0232-04	PROTECTION COVER PROTECTION BAG (60X110) PROTECTION BAG (235X350X0.03)	
40 41 43 44 46	2A 1A 1A 2A 1A	J02-0346-13 J19-0812-08 J19-0814-08 J19-2580-08 J19-2614-08	INSULATOR ASSY HOLDER HOLDER TONEARM BASE ASSY TONEARM REST	
49 50 51 52 53	1A 2B 2B 2B 2B 2B	J30-0183-05 J31-0263-05 J31-0273-05 J41-0033-05 J42-0078-05	SPACER (38X15X1.6) COLLAR COLLAR POWER CORD BUSHING POWER CORD BUSHING	
46 49 50 51 52	1A 1A 2B 2B 2B 2B	J19-2614-08 J30-0183-05 J31-0263-05 J31-0273-05 J41-0033-05	TONEARM REST SPACER (38X15X1.6) COLLAR COLLAR POWER CORD BUSHING	

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii) T: England <u>UE</u>: AAFES(Europe) X: Australia

M: Other Areas

⚠ indicates safety critical components.

KD-7010 KD-

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PARTS LIST

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54 55 56 58 59	1A 1A 1A 2A 1A		J42-0317-08 J50-0314-25 J50-0322-04 J69-0035-05 J91-0294-08	BUSHING HINGE HINGE PLATE RING PICKUP ARM		
61 62 63 64	1A 1A 2A 2A		J92-0053-15 J99-0020-08 J21-2302-05 J19-2656-08 J61-0054-05	SHELL TØNEARM LIFTER HØLDER LIFTER BASE WIRE BAND		
-			J61-0307-05	WIRE BAND		
66 66 66	2B 2B 2B	*	L01-7121-05 L01-7122-05 L01-7127-05	PØWER TRANSFØRMER PØWER TRANSFØRMER PØWER TRANSFØRMER	P E T	
70 71 72 82 83	3A 3A 3A 1B 3A		N09-0850-04 N09-085104 N09-0852-04 N14-016405 N14-0412-04	CARTRIDGE MOUNTING SCREW(M2.6X CARTRIDGE MOUNTING SCREW(M2.6X CARTRIDGE MOUNTING SCREW(M2.6X HEXAGON NUT CIRCULAR NUT		
84 85 87 88 89	3A 2B 2A 1B 1B		N19-0175-09 N19-0965-05 N19-0985-05 N29-0219-05 N19-0966-05	FLAT WASHER FLAT WASHER FLAT WASHER RETAINING RING M TYPE WASHER		
A D E F F	1B 1A 1A 2B 1B		N09-1648-05 N09-1375-08 N09-1374-08 N09-1565-05 N24-3050-41	MACHINE SCREW (M3XB) SET SCREW SET SCREW MACHINE SCREW (M6X25) E TYPE RETAINING RING		
P S T V Z	1A 1A 2A 1A,1B 2A		N09-137608 N09-123805 N09-164505 N09-131108 N09-159705	SET SCREW TAPTITE SCREW (3X12) MACHINE SCREW (M3X35) STEPPED SCREW MACHINE SCREW (M6X22.2)		
92 93	3A 3A			HEXAG®N WRENCH KEY EP ADAPTER		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RIC		D-00: P, X25-2582-71: E, T)	J	L
D17 D18 D19	2A 2A 2A		B30-1012-05 B30-1010-05 B30-1012-05	LED (QUARTZ LØCK) LED (45) LED (33)		
C1 ,2 C3 ,4 C5 ,6 C7 C9			C90-1358-05 CE04KW1C470M CE04KW1V100M CE04KW1H2R2M CE04KW1HR47M	ELECTR® 2200UF 25WV ELECTR® 47UF 16WV ELECTR® 10UF 35WV ELECTR® 2.2UF 50WV ELECTR® 0.47UF 50WV		
C10 C11 C12 C13 C14 ,15			CK45FF1H103Z CK45FB1H102K CK45FF1H103Z CE04KW1V4R7M CK45FF1H103Z	CERAMIC 0.010UF Z CERAMIC 1000PF K CERAMIC 0.010UF Z ELECTR® 4.7UF 35WV CERAMIC 0.010UF Z		
C16 -17 C18 C19			CC45FSL1H470J C90-1456-05 CEO4KW1HR47M	CERAMIC 47PF J NP-ELEC 0.22UF 50WV ELECTRØ 0.47UF 50WV		

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	61 62 63 64	1A 1A 2A 2A		J92-0053-15 J99-0020-08 J21-2302-05 J19-2656-08 J61-0054-05	SHELL TØNEARM LIFTER HØLDER LIFTER BASE WIRE BAND		
				J61-0307-05	WIRE BAND		
♠	66 66 66	2B 2B 2B	*	L01-7121-05 L01-7122-05 L01-7127-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	P E T	
	70 71 72 82 83	3A 3A 3A 1B 3A		N09-0850-04 N09-0851-04 N09-0852-04 N14-0164-05 N14-0412-04	CARTRIDGE MOUNTING SCREW(M2.6X CARTRIDGE MOUNTING SCREW(M2.6X CARTRIDGE MOUNTING SCREW(M2.6X HEXAGON NUT CIRCULAR NUT		
	84 95 87 88 89	3A 2B 2A 1B 1B		N19-0175-09 N19-0965-05 N19-0985-05 N29-0219-05 N19-0966-05	FLAT WASHER FLAT WASHER FLAT WASHER RETAINING RING M TYPE WASHER		
	A D E F	1B 1A 1A 2B 1B		N09-1648-05 N09-1375-08 N09-1374-08 N09-1565-05 N24-3050-41	MACHINE SCREW (M3XB) SET SCREW SET SCREW MACHINE SCREW (M6X25) E TYPE RETAINING RING		
	P S T V Z	1A 1A 2A 1A,1B 2A		N09-1376-08 N09-1238-05 N09-1645-05 N09-1311-08 N09-1597-05	SET SCREW TAPTITE SCREW (3X12) MACHINE SCREW (M3X35) STEPPED SCREW MACHINE SCREW (M6X22.2)		
	92 93	3A 3A		W01-0302-08 W01-0329-04	HEXAGON WRENCH KEY EP ADAPTER		
					0-00: P, X25-2582-71: E, T)	1	
	D17 D18 D19	2A 2A 2A		B30-1012-05 B30-1010-05 B30-1012-05	LED (QUARTZ L®CK) LED (45) LED (33)		
	C1 ,2 C3 ,4 C5 ,6 C7 C9			C90-1358-05 CE04KW1C470M CE04KW1V100M CE04KW1H2R2M CE04KW1HR47M	ELECTR® 2200UF 25WV ELECTR® 47UF 16WV ELECTR® 10UF 35WV ELECTR® 2.2UF 50WV ELECTR® 0.47UF 50WV		
	C10 C11 C12 C13 C14 +15			CK45FF1H103Z CK45FB1H102K CK45FF1H103Z CE04KW1V4R7M CK45FF1H103Z	CERAMIC 0.010UF Z CERAMIC 1000PF K CERAMIC 0.010UF Z ELECTRØ 4.7UF 35WV CERAMIC 0.010UF Z		
	C16 ,17 C18 C19			CC45FSL1H470J C90-1456-05 CE04KW1HR47M	CERAMIC 47PF J NP-ELEC 0.22UF 50WV ELECTRØ 0.47UF 50WV		

E: Scandinavia & Europe K: USA

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Ref. No.	Address	New Parts No.	Description	Desti- Re-
参照番号	位 置	新部品番号	部品名/規格	仕 向備
C21 ,22 C23 C24 C25 -27 C28 -31		CEO4KW1V100M CF92FV1H222J CF92FV1H332J CK45FB1H102K CEO4GW1C101M	ELECTR® 10UF 35WV MF 2200PF J MF 3300PF J CERAMIC 1000PF K LL-ELEC 100UF 16WV	
C32 -34 C35 C36 C37 C38		CF92V1H105J C90-1395-05 C90-1396-05 CK45FF1H103Z C90-1285-05	MF 1.0UF J NP-ELEC 220UF 10WV NP-ELEC 33UF 10WV CERAMIC 0.010UF Z ELECTRO 3.3UF 25WV	
C39 C40 C43 C44 C45		CK45FF1H103Z CK45FF1H473Z CK45FF1H103Z CE04KW1V100M C90-1352-05	CERAMIC 0.010UF Z CERAMIC 0.047UF Z CERAMIC 0.010UF Z ELECTRØ 10UF 35WV NP-ELEC 4.7UF 25WV	
95	1B	E23-0125-05	TERMINAL	
X1		L77-0580-05	CRYSTAL RESØNATØR(4.6MHZ)	
R48 ,49 R50 ,51 R52 ,53 R54 ,55 VR1		RN14BK2C8251F RN14BK2C1963F RN14BK2C8251F RN14BK2C1963F R12-3097-05	RN 8.25K F 1/6W RN 196K F 1/6W RN 8.25K F 1/6W RN 196K F 1/6W TRIMMING PØT.(22K)	
VR2		R12-1069-05	TRIMMING POT. (4.7K)	
S14	2A,2B	S40-1064-05	PUSH SWITCH	
D1 -5 D6 ,7 D8 D9 ,10 D11		S5566B RD11ES(B) RD8.2JS(B) RD5.1JS(B) 1SS178	DINDE ZENER DINDE ZENER DINDE ZENER DINDE DINDE	
D12 -15 D12 -15 D16 D20 D20		1SS133 1SS176 MA27T(A) 1SS133 1SS176	DINDE DINDE VARISTNR DINDE DINDE	
IC1 IC2 IC3 IC4 ,5 IC6 ,7		UPD7520C-028 TC9142P UPD4013BC M5218P M5218P-K	IC(MICROPROCESSOR) IC(QUARTZ PLL MOTOR CONTROL) IC(D FLIP-FLOP X2) IC(OP AMP X2) IC(OP AMP X2)	
IC8 IC9 PH1 Q1 Q3 ,4	18	AN6562 LC4066BH NJL5141E-A 2SC3666 2SC1685(R,S)	IC(NF AMP X2) IC(BILATERAL SWITCH X4) PHNTN TRANSISTNR TRANSISTNR TRANSISTNR	
Q3 ,4 Q3 ,4 Q5 Q6 Q7		2SC232O(E,F) 2SC945(A)(Q,P) DTA124EN 2SC1384NC(R,S) 2SA1286	TRANSIST®R TRANSIST®R DIGITAL TRANSIST®R TRANSIST®R TRANSIST®R	
Q8 Q8		25C1685(R,S) 25C2320(E,F) 25C945(A)(Q,P)	TRANSISTØR TRANSISTØR TRANSISTØR	

E: Scandinavia & Europe K: USA

U: PX(Far East, Hawaii) T: England M: Other Areas

P: Canada

UE: AAFES(Europe) X: Australia

× New Parts

PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

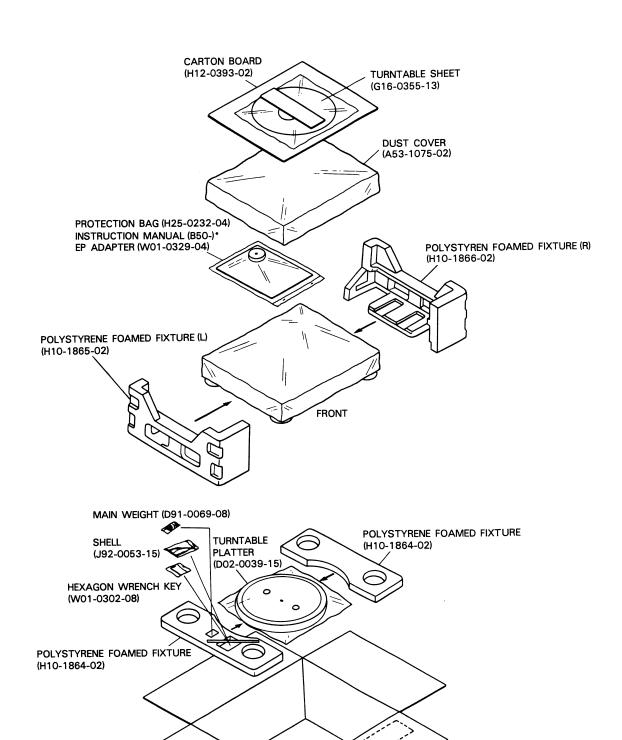
Ref.		Addı		Parts	Parts No.	Description	nation	
雅参照	番号	位	置	新	部 品 番 号	部品名/規格	仕 向	備考
09 010 012 013 014	,11				2SK105(F,H) 2SC2320(F,G) 2SD1266 2SB941 2SD882*1(Q,P)	FET TRANSIST®R TRANSIST®R TRANSIST®R TRANSIST®R TRANSIST®R		
015 017	,16				2SB772*1(Q,P) 2SD882*1(Q,P)	TRANSISTØR TRANSISTØR		
					MOTOR ASSY	(X92-1100-00)		
-					H25-0232-04	PROTECTION BAG (235X350X0.03)		
142		38			N29-0085-05	RETAINING RING		
121 123		3B 3B			T50-1011-03 T50-1031-04	YOKE ROTOR ASSY		
				EL		MODULE (W02-0660-03)		
L1	,2				L39-0127-05	DRIVE COIL		
H1	,2				T95-0031-15	HALL ELEMENT		
		1						
								1

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

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PACKING



ITEM CARTON CASE _ (H01-8395-04)

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SPECIFICATIONS

Motor and turntable		Tonearm	
Drive System	Direct-drive system	Туре	Static-balance type, J-shape
Motor	Quartz PLL coreless & slotless		tonearm
	DC servo motor	Effective Tonearm Length.	245 mm (9-5/8")
Turntable Platter	33 cm (13") diameter	Overhang	15 mm (9/16")
	Aluminum alloy, Die-cast	Tracking Error	$+ 1.8^{\circ} \text{ to } -1.0^{\circ}$
Speeds	2 speeds, 33-1/3 and 45 rpm	Tracking Force Range	0 to 3 grams (0.1 g Step)
Wow & Flutter		Usable Cartridge Weight	2.0 to 12 grams (with supplied head-shell)
Rumble	DIN weighted better than -80 dB	Miscellaneous	
	DIN unweighted better than	Power Consumption	
	– 55 dB	Dimensions	W: 490 mm (19-5/16")
		·	H: 182 mm (7-3/16")
			D: 410 mm (16-5/32")
		Weight (Net)	13.7 kg (30.14 lb)
Note:			

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the CANADA (P) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

KENWOOD U.S.A. CORPORATION 2201 East Dominguez Street, Long Beach, CA 90810; 550 Clark Drive, Mount Olive, NJ 07828, U.S.A. KENWOOD ELECTRONICS CANADA INC. P.O. Box 1075 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2 KENWOOD ELECTRONICS BENELUX N.V. Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH Rembrücker-Str. 15, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A. Hi-Fi · VIDEO · CAR Hi-Fi 13, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD U.K. LTD.

17 Bristol Road, The Metropolitan Centre, Greenford, Middx. UB6 8UP England KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. 4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong